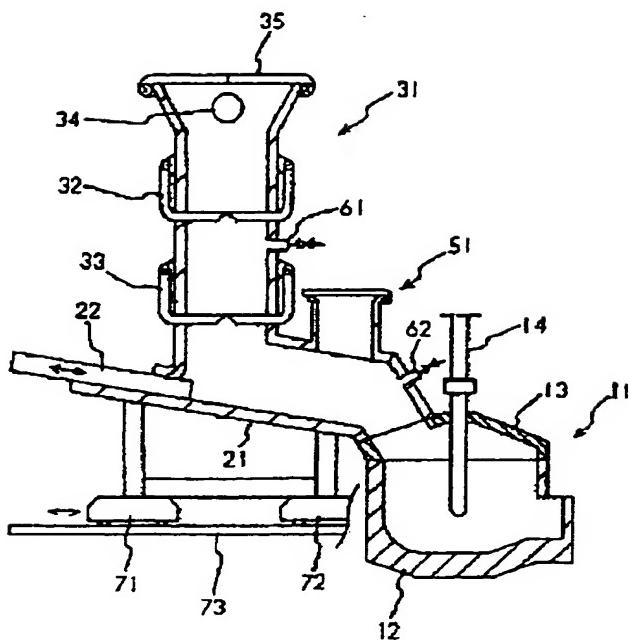


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 APPLICANT : DAIDO STEEL CO LTD;  
 INVENTOR : MATSUO KUNIO;  
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 TITLE : SCRAP PREHEATING DEVICE IN  
 STEEL MAKING ARC FURNACE



**ABSTRACT :** PURPOSE: To prevent melting or fixing of scrap generated when the scrap of which preheating is not suitable by a method wherein an exclusive feeding part for the scrap of which preheating is not suitable is installed at a scrap feeding passage for use in connecting a shaft furnace to the upper part of a steel making arc furnace.

**CONSTITUTION:** A shaft furnace 31 is connected to an upper part of a steel making arc furnace 11 through a scrap feeding passage 21. A plurality of stages of grids 32, 33 are installed at the shaft furnace 31 in such a way that they may be opened or closed. In such a scrap preheating device as described above, an exclusive feeding part 51 for scrap of which preheating is not suitable is installed at the scrap feeding passage 21. The scrap of which preheating is not suitable is fed from the exclusive feeding part 51 into the steel making arc furnace 11 without preheating the scrap, thereby melting or fixing of the scrap having unsuitable preheating characteristic which is generated when the scrap is preheated is prevented and at the same time a smooth flow of discharged gas or feeding of other scraps is maintained.

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